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ABSTRACT

A temperature conditioning apparatus for the human body includes a vest or other clothing unitary with a thermoelectric or Stirling cycle heat pump worn by the user. The unit is powered by a battery source worn on the user's belt or other part of his or her body, or by an externally-mounted electrical energy source, for example, in a vehicle. The vest has front and rear panels with an air flow layer and permeable inside layer that accept and release conditioned air to the user. The vest may be used with body armor or other protective layers, that is, the vest may be worn underneath body armor or body armor may be built into the vest, or the vest may be used without body armor to cool the user in an exceptionally hot environment such as a non-air conditioned space in hot weather.